

ABSTRACT

The present invention provides a method and apparatus for producing dimethyl carbonate, wherein carbon dioxide is recovered from combustion exhaust gas of a steam reformer 10 and a boiler; and some of the recovered carbon dioxide is used for methanol synthesis as a raw material for the steam reformer 10, and the remaining carbon dioxide is allowed to react with some of the yielded methanol to synthesize dimethyl carbonate. According to the present invention, CO₂, which has conventionally been discharged, is returned to the steam reformer and is used effectively to produce DMC, and also devices for producing methanol and DMC can be simplified.